

INDEX

Volume 10, 1984

Journal of Physical Acoustics

SOVIET PHYSICS-ACOUSTICS

Volume 10, 1964

A translation of Akusticheskii Zhurnal

- Interaction of Ultrasonic Waves in Cavitation. (E) V. A. Akulichev and V. I. N'ichev. 10, 10 (1964) [10, 11 (1964)]
- Calculation of the Static Sensitivity of a Three-Layer Cylindrical Transducer. (T) A. A. Anan'eva and V. A. Berezin. 10, 13 (1964) [10, 15 (1964)]
- Effect of Small Additives of Group III and IV Elements on the Dielectric and Piezoelectric Properties of Ceramic Lead-Barium Metanickels Ferrolelectrics. (E) A. A. Anan'eva and M. A. Ugryumova. 10, 237 (1965) [10, 265 (1964)]
- Scattering of Sound by Air Bladders of Fish in Deep Sound-Scattering Ocean Layers. (E) I. B. Andreeva. 10, 17 (1964) [10, 20 (1964)]
- The Role of Ultrasonic Cavitation in Reducing the Viscosity of Hydraulic Liquids. (E) M. E. Arkhangelski and K. Ya. Sergeeva. 10, 86 (1964) [10, 111 (1964)]
- A Special Case of Relaxation Involving Exchange of Vibrational Quanta. (T) A. Baizadev. 10, 195 (1964) [10, 239 (1964)]
- Mechanism of Emulsification in an Acoustic Field. (T/E) A. A. Baran. 10, 343 (1965) [10, 398 (1964)]
- Interferometric Measurements of the Dispersion of Ultrasonic Velocity in Liquids. (E) K. Barshauskas, V. Ilgmas, and O. Kubilyunene. 10, 21 (1964) [10, 25 (1964)]
- Vibrational Relaxation in Thiophene Vapors. (E/T) Yu. A. Bashlachev and V. F. Yakovlev. 10, 197 (1964) [10, 241 (1964)]
- Spectral Analysis Using Harmonic Analyzers: Its Inadequacies and Ways of Coping with Them. (E/T) D. V. Bazhenov. 10, 124 (1964) [10, 147 (1964)]
- An Investigation of the Absorption Coefficient and the Propagation Velocity of Ultrasonic Waves in Binary Mixtures of Formic Acid and Ethylformate. (E/T) B. A. Belinskii, V. F. Nodrev, and P. K. Khabibullae. 10, 87 (1964) [10, 112 (1964)]
- Calculation of the Static Sensitivity of a Three-Layer Cylindrical Transducer. (T) A. A. Anan'eva and V. A. Berezin. 10, 13 (1964) [10, 15 (1964)]
- Elastic Moduli of Ice Crystals. (E) V. V. Bogorodskii. 10, 124 (1964) [10, 152 (1964)]
- Application of Ultrasonics in the Food Industry. Yu. Borisov. 10, 215 (1964) [10, 256 (1964)]
- Scientific Council on Ultrasonic Physics. Yu. Borisov. 10, 217 (1964) [10, 257 (1964)]
- A Calculation of the Pulsations of Gas Bubbles in an Incompressible Liquid Subject to a Periodically Varying Pressure. (T) M. I. Borotnikova and R. I. Boloukhin. 10, 28 (1964) [10, 34 (1964)]
- A Limiting Case of Sound Propagation in Natural Waveguides. (T) L. M. Brekhovskikh. 10, 89 (1964) [10, 114 (1964)]
- Amplification of Ultrasonic and Hypersonic Waves in Crystals (Review). (R) A. A. Chaban. 10, 111 (1964) [10, 137 (1964)]
- Self-Consistent Field Approach to Calculation of the Effective Parameters of Microinhomogeneous Media. (T) I. A. Chaban. 10, 295 (1965) [10, 351 (1964)]
- Conference on the Application of Ultrasonics for the Intensification of Chemical Engineering Processes. N. P. Chugunov. 10, 423 (1965) [10, 488 (1964)]
- Properties of Magnetostrictive Ferrites at Large Amplitudes of Magnetic Induction and Mechanical Stress. (E/T) I. P. Golyamina and V. K. Chulkova. 10, 236 (1965) [10, 276 (1964)]
- Excitation of Normal Modes in Plates by a Sound Beam at Oblique Incidence. (T/E) P. B. Dianov and K. V. Zharkov. 10, 39 (1964) [10, 48 (1964)]
- Variable Path Ultrasonic Interferometer with a Discrete Frequency Spectrum. (E) V. I. Domarkas and E. P. Jaronis. 10, 201 (1964) [10, 244 (1964)]
- Seminar on the Application of Ultrasonics in Electroplating Technology. V. A. Druchenko. 10, 213 (1964) [10, 265 (1964)]
- The Nature of Liquid Atomization in an Ultrasonic Fountain. (T/E) E. L. Gershenson and O. K. Eknadiazants. 10, 127 (1964) [10, 156 (1964)]
- Analysis of Rays Propagating in an Inhomogeneous Medium. (T) V. A. Elisavirin. 10, 242 (1965) [10, 284 (1964)]
- Ultrasonic Initiation of Chain Reaction with a Bromine Catalyst. (E) M. A. Margulis, A. V. Sokol'skaya, and I. E. Shpiner. 10, 315 (1965) [10, 370 (1964)]
- Effect of Intense Ultrasound on the Structure of Concentrated Polymer Solutions. (T/E) N. M. Fedorova. 10, 294 (1965) [10, 347 (1964)]
- Slow Fluctuations of the Sound Field Due to Seiche Oscillations of a Shallow Lake. (T/E) L. N. Zakharov, V. S. Nesterov, and E. G. Fedoseeva. 10, 250 (1965) [10, 293 (1964)]
- The Nature of Liquid Atomization in an Ultrasonic Fountain. (T/E) E. L. Gershenson and O. K. Eknadiazants. 10, 127 (1964) [10, 156 (1964)]
- The Visit of Professor G. Békésy to the USSR. G. Glekin. 10, 106 (1964) [10, 131 (1964)]
- Calculation of the Relaxation Time for the Degree of Dissociation of Magnesium Sulfate in Fresh and Sea Water as a Function of Temperature. (T/E) V. P. Glotov. 10, 33 (1964) [10, 40 (1964)]
- Coherent Reflection of Sound from an Ocean Surface Layer Containing Resonance Scatterers. (T) V. P. Glotov and Yu. P. Lysanov. 10, 360 (1965) [10, 419 (1964)]
- Properties of Magnetostrictive Ferrites at Large Amplitudes of Magnetic Induction and Mechanical Stress. (E/T) I. P. Golyamina and V. K. Chulkova. 10, 236 (1965) [10, 276 (1964)]
- Experiments in the Spatial Correlation of the Amplitude and Phase Fluctuations of Acoustic Signals Reflected from a Rough Ocean Surface. (E/T) E. P. Gulin and K. I. Malyshev. 10, 365 (1965) [10, 425 (1964)]

- Sound Radiation From an Infinite Plate Excited by a Normal Point Force. (T) L. Ya. Gutin, 10, 369 (1965) [10, 431 (1964)]
- Interferometric Measurements of the Dispersion of Ultrasonic Velocity in Liquids. (E) K. Barshauskas, V. Ilginskas, and O. Kubilyunene, 10, 21 (1964) [10, 25 (1964)]
- A Precision Interferometer for Measuring the Speed of Ultrasound in Liquids in the Range 1-12 Mc. (E) V. Ilginskas, O. Kubilyunene, and A. Yapertas, 10, 44 (1964) [10, 54 (1964)]
- A Digital Interferometer for Measuring the Speed of Ultrasound. (E) R. P. Zhilinskaya, V. I. Ilginskas, and E. P. Yaronis, 10, 93 (1964) [10, 118 (1964)]
- Interaction of Ultrasonic Waves in Cavitation. (E) V. A. Akulichev and V. I. Ilginskas, 10, 10 (1964) [10, 11 (1964)]
- On an Article by N. E. Zhukovskii Describing the Echo-Pulse Method of Flaw Detection. (R) M. A. Isakovich, 10, 372 (1965) [10, 435 (1964)]
- Reflection of Flexural Waves by Ice Hummocks. (T) N. I. Israileva and V. N. Krasil'nikov, 10, 256 (1965) [10, 301 (1964)]
- Variable Path Ultrasonic Interferometer with a Discrete Frequency Spectrum. (E) V. I. Domarkas and E. P. Jaronis, 10, 301 (1964) [10, 344 (1964)]
- The Scattering of Ultrasonic Rayleigh Waves at Models of Surface Defects. (E) I. A. Viktorov and T. M. Kaekina, 10, 25 (1964) [10, 30 (1964)]
- Investigation of Lamb Wave Excitation by the "Wedge" Method. (T/E) I. A. Viktorov, O. M. Zubova, and T. M. Kaekina, 10, 354 (1965) [10, 412 (1964)]
- Focusing of Cylindrical Ultrasonic Waves in an Absorptive Medium. (T) I. N. Kozlovskii, 10, 262 (1965) [10, 306 (1964)]
- Measurement of the Ultrasonic Parameters of Liquid Crystals of Cholesteryl Caprate. (E) G. E. Zvereva and A. P. Kapustina, 10, 97 (1964) [10, 122 (1964)]
- Kinetics of the Ultrasonic Degassing of a Liquid Below the Cavitation Threshold. (E) O. A. Kapustina, 10, 376 (1965) [10, 440 (1964)]
- Acoustic Field of an Infinite Circular Cylindrical Radiator with Complex Boundary Conditions on the Surface. (T) M. I. Karnovskii and V. G. Losovik, 10, 265 (1965) [10, 313 (1964)]
- I. E. El'piner. Ultrasound-Physicochemical and Biological Effects. Reviewed by L. P. Kayushin, 10, 218 (1964) [10, 258 (1964)]
- An Investigation of the Absorption Coefficient and the Propagation Velocity of Ultrasonic Waves in Binary Mixtures of Formic Acid and Ethylformate. (E/T) B. A. Belinskii, V. F. Nosdrev, and P. K. Khabibullayev, 10, 87 (1964) [10, 112 (1964)]
- Scattering of Flexural Waves by Antivibrators on a Plate. (T/E) I. I. Kiyukin and Yu. D. Sergeev, 10, 49 (1964) [10, 60 (1964)]
- Visualization of the Oscillations of a Plate. (E) I. I. Kiyukin, 10, 98 (1964) [10, 123 (1964)]
- Amplitude and Phase Fluctuations and Their Correlation in the Propagation of Waves in a Medium with Random, Statistically Anisotropic Inhomogeneities. (T) V. M. Komissarov, 10, 143 (1964) [10, 174 (1964)]
- Generation of Sound in the Collision of Gas Jets. (E) V. I. Kondrat'ev, 10, 54 (1964) [10, 66 (1964)]
- Sound Generation Associated with the Encounter of Oxidizer and Fuel Jets. (T/E) V. I. Kondrat'ev and A. V. Rimskii-Korsakov, 10, 380 (1965) [10, 444 (1964)]
- Diffraction of a Flexural Wave by a Circular Obstacle in a Plate. (T) Yu. K. Konenkov, 10, 153 (1964) [10, 186 (1964)]
- Reflection of Flexural Waves by Ice Hummocks. (T) N. I. Israileva and V. N. Krasil'nikov, 10, 256 (1965) [10, 301 (1964)]
- Interferometric Measurements of the Dispersion of Ultrasonic Velocity in Liquids. (E) K. Barshauskas, V. Ilginskas, and O. Kubilyunene, 10, 21 (1964) [10, 25 (1964)]
- A Precision Interferometer for Measuring the Speed of Ultrasound in Liquids in the Range 1-12 Mc. (E) V. Ilginskas, O. Kubilyunene, and A. Yapertas, 10, 44 (1964) [10, 54 (1964)]
- Eleventh All-Russian Scientific Conference on the Application of Ultrasonics to the Investigation of Matter. B. Kudryavtsev, 10, 216 (1964) [10, 257 (1964)]
- The Mechanism of Sound Generation in a Gas-Jet Sound Radiator. (T/E) V. P. Kurkin, 10, 187 (1964) [10, 191 (1964)]
- Coherent and Incoherent Scattering of Waves by a Set of Point Scatterers Distributed Randomly in Space. (T/E) B. F. Kur'yanov, 10, 180 (1964) [10, 195 (1964)]
- Calculating the Effect of the Free Surface on Sound Scattering in the Sea. (T) B. F. Kur'yanov, 10, 203 (1964) [10, 245 (1964)]
- Interference Effects in the Use of a Moving Receiver to Determine Angle of Arrival of Sound. (T) B. F. Kur'yanov, 10, 312 (1965) [10, 368 (1964)]
- Sound Scattering at a Rough Solid Surface. (T) A. D. Lapin, 10, 58 (1964) [10, 71 (1964)]
- Acoustical Parameters of a Lightweight Perforated Membrane. (T/E) I. V. Lebedeva and V. S. Nesterov, 10, 289 (1965) [10, 318 (1964)]
- Measurement of the Bulk Modulus of Elasticity of Animal Tissues. (E) L. P. Lebedeva, 10, 410 (1965) [10, 479 (1964)]
- Acoustic Field of an Infinite Circular Cylindrical Radiator with Complex Boundary Conditions on the Surface. (T) M. I. Karnovskii and V. G. Losovik, 10, 265 (1965) [10, 313 (1964)]
- The Theory of Vibrations of Nonhomogeneous Elastic Plates. (T) L. M. Lyamshev, 10, 65 (1964) [10, 81 (1964)]
- An Integral Representation of the Field of a Point Source in a Moving Medium. (T) L. M. Lyamshev, 10, 100 (1964) [10, 124 (1964)]
- Reflection of Sound From an Interface Between Moving Media. (T) L. M. Lyamshev, 10, 205 (1964) [10, 247 (1964)]
- "Underwater Acoustics" Edited by V. M. Albers. (R) Reviewed by Yu. P. Lysanov, 10, 107 (1964) [10, 132 (1964)]
- The Edge Effect in a Large Radiator. (T) Yu. P. Lysanov, 10, 165 (1964) [10, 202 (1964)]
- Coherent Reflection of Sound From an Ocean Surface Layer Containing Resonance Scatterers. (T) V. P. Giotov and Yu. P. Lysanov, 10, 360 (1965) [10, 419 (1964)]
- Field of a Point Dipole Sound Source Near a Plane Interface Between Two Media. (T) Yu. P. Lysanov, 10, 412 (1965) [10, 481 (1964)]
- Investigation of Ultrasonic Absorption in the Binary Mixture Benzene-Methyl Alcohol Along the Saturation Line, Including the Critical Region. (E) L. G. Makhankov and V. F. Nosdrev, 10, 207 (1964) [10, 249 (1964)]
- Experiments in the Spatial Correlation of the Amplitude and Phase Fluctuations of Acoustic Signals Reflected From a Rough Ocean Surface. (E/T) E. P. Gulin and K. I. Malyshev, 10, 365 (1965) [10, 425 (1964)]

- Ultrasonic Initiation of Chain Reaction with a Bromine Catalyst. (E) M. A. Margulis, A. V. Sokol'skaya, and I. E. Zil'piner. 10, 315 (1965) [10, 370 (1964)]
- Effect of Flight Velocity on the Engine Noise of the Tu-124 Transport. (E) B. N. Mel'nikov. 10, 276 (1965) [10, 327 (1964)]
- Normal Mode Damping in a Plate with Free Edges. (T/E) K. V. Zharkov, L. G. Merkulov, and E. D. Pigulevskii. 10, 133 (1964) [10, 163 (1964)]
- Damping of Normal Modes in a Plate Immersed in a Liquid. (T/E) L. G. Merkulov. 10, 169 (1964) [10, 206 (1964)]
- On the Absolute Measurement of Ultrasonic Fields in Solids. (E/T) I. G. Mikhailov and V. A. Shutlov. 10, 77 (1964) [10, 98 (1964)]
- Velocity of Sound and Compressibility of Solutions of Inorganic Salts in Formamide. (E) I. G. Mikhailov, M. V. Rozina, and V. A. Shutlov. 10, 174 (1964) [10, 213 (1964)]
- Nonlinear Acoustical Properties of Aqueous Electrolytic Solutions. (E/T) I. G. Mikhailov and V. A. Shutlov. 10, 385 (1965) [10, 450 (1964)]
- Sound Propagation in an Inhomogeneous Medium and the Internal Conditions. (T) D. I. Mirovitskii. 10, 70 (1964) [10, 88 (1964)]
- The Fourth All-Union Research-Development Conference on the Application of Ultrasonics in Machine Design. (R) A. M. Mitkevich. 10, 104 (1964) [10, 128 (1964)]
- A Simple Sectional Ultrasonic Tool for the Generation of Torsional Vibrations. (E) A. M. Mitkevich. 10, 317 (1965) [10, 372 (1964)]
- Mechanism of Elastic Damping in Conjunction with Phase Transitions in Cu-Be and Cu-In Alloys. (E/T) N. S. Mordyuk and I. G. Polotskii. 10, 319 (1965) [10, 374 (1964)]
- Intelligibility in Singing as a Function of Fundamental Voice Pitch. (E/T) V. P. Morozov. 10, 279 (1965) [10, 330 (1964)]
- Determination of the Elastic Constants of Solids at Elevated Temperatures by the Double Echo-Pulse Method. (E) L. M. Mukhin and G. V. Yakovlev. 10, 415 (1965) [10, 483 (1964)]
- Investigation of the Acoustical Characteristics of a Free Turbulent Jet. (E) E. V. Vlasov and A. G. Munin. 10, 232 (1965) [10, 271 (1964)]
- Nature of the Disturbances Giving Rise to Formation of the Disperse Phase of an Emulsion in an Acoustic Field. (R) S. A. Neduzhii. 10, 390 (1965) [10, 456 (1964)]
- Slow Fluctuations of the Sound Field Due to Seiche Oscillations of a Shallow Lake. (T/E) L. N. Zakharov, V. S. Nesterov, and É. G. Fedoseeva. 10, 250 (1965) [10, 293 (1964)]
- Acoustical Parameters of a Lightweight Perforated Membrane. (T/E) I. V. Lebedeva and V. S. Nesterov. 10, 269 (1965) [10, 318 (1964)]
- Radiation from a Plate of Finite Dimensions with Arbitrary Boundary Conditions. (T) A. S. Nikiforov. 10, 178 (1964) [10, 218 (1964)]
- An Investigation of the Absorption Coefficient and the Propagation Velocity of Ultrasonic Waves in Binary Mixtures of Formic Acid and Ethylformate. (E/T) B. A. Belinskii, V. F. Nozdrev, and P. K. Khabibullae. 10, 87 (1964) [10, 112 (1964)]
- Investigation of Ultrasonic Absorption in the Binary Mixture Benzene-Methyl Alcohol Along the Saturation Line, Including the Critical Region. (E) I. G. Makhan'ko and V. F. Nozdrev. 10, 207 (1964) [10, 249 (1964)]
- Correlation Characteristics of Sea Reverberation. (T/E) V. V. Ol'shevskii. 10, 81 (1964) [10, 104 (1964)]
- Statistical Spectra of Sea Reverberation. (E) V. V. Ol'shevskii. 10, 183 (1964) [10, 224 (1964)]
- Propagation of Sound in a Heat Conducting Medium. (T) I. I. Perepechko. 10, 284 (1965) [10, 335 (1964)]
- Normal Mode Damping in a Plate with Free Edges. (T/E) K. V. Zharkov, L. G. Merkulov, and E. D. Pigulevskii. 10, 133 (1964) [10, 163 (1964)]
- Isocorrelation Curves as Characteristics of the Sound Fields in Reverberation Chambers. (T/R) N. N. Piskarskii. 10, 323 (1965) [10, 377 (1964)]
- Mechanism of Elastic Damping in Conjunction with Phase Transitions in Cu-Be and Cu-In Alloys. (E/T) N. S. Mordyuk and I. G. Polotskii. 10, 319 (1965) [10, 374 (1964)]
- Sound Generation Associated with the Encounter of Oxidizer and Fuel Jets. (T/E) V. I. Kondrat'ev and A. V. Rimskii-Korsakov. 10, 380 (1965) [10, 444 (1964)]
- The Underwater Echo-Location (Sonar) Capability of Dolphins (Review). (R) E. V. Romanenko. 10, 331 (1965) [10, 385 (1964)]
- Measurement of the Dynamic Characteristics of Sound and Vibration Insulating Materials in Longitudinal Vibrations. (R) G. S. Rosin. 10, 1 (1964) [10, 1 (1964)]
- Ultrasonic Signal Amplification and Noise in a Cds Crystal. (E) V. I. Vas'kova, I. A. Viktorov, and L. D. Rozenberg. 10, 347 (1965) [10, 403 (1964)]
- Velocity of Sound and Compressibility of Solutions of Inorganic Salts in Formamide. (E) I. G. Mikhailov, M. V. Rozina, and V. A. Shutlov. 10, 174 (1964) [10, 213 (1964)]
- Scattering of Flexural Waves by Antivibrators on a Plate. (T/E) I. I. Klyukin and Yu. D. Sergeev. 10, 49 (1964) [10, 60 (1964)]
- The Role of Ultrasonic Cavitation in Reducing the Viscosity of Hydraulic Liquids. (E) M. E. Arkhangelskii and K. Ya. Sergeeva. 10, 86 (1964) [10, 111 (1964)]
- Sound Transmission Through a Thin Plate. (T) E. L. Shenderov. 10, 187 (1964) [10, 229 (1964)]
- Sound Diffraction by Slits in a Plate of Finite Thickness. (T) E. L. Shenderov. 10, 305 (1965) [10, 359 (1964)]
- Propagation of Flexural Waves in an Inhomogeneous Plate with Smoothly Varying Parameters. (T) V. V. Tyutkin and A. P. Shkvarnikov. 10, 402 (1965) [10, 470 (1964)]
- On the Absolute Measurement of Ultrasonic Fields in Solids. (E/T) I. G. Mikhailov and V. A. Shutlov. 10, 77 (1964) [10, 98 (1964)]
- Velocity of Sound and Compressibility of Solutions of Inorganic Salts in Formamide. (E) I. G. Mikhailov, M. V. Rozina, and V. A. Shutlov. 10, 174 (1964) [10, 213 (1964)]
- Nonlinear Acoustical Properties of Aqueous Electrolytic Solutions. (E/T) I. G. Mikhailov and V. A. Shutlov. 10, 385 (1965) [10, 450 (1964)]
- Energy Balance of an Acoustic Field in the Presence of Cavitation. (E) M. G. Skrotzky. 10, 398 (1965) [10, 465 (1964)]
- Ultrasonic Initiation of Chain Reaction with a Bromine Catalyst. (E) M. A. Margulis, A. V. Sokol'skaya, and I. E. Zil'piner. 10, 315 (1965) [10, 370 (1964)]
- A Calculation of the Pulsations of Gas Bubbles in an Incompressible Liquid Subject to a Periodically Varying Pressure. (T) M. I. Borotnikova and R. I. Soloukhin. 10, 28 (1964) [10, 34 (1964)]
- Variation of Ultrasonic Attenuation in Nickel Single Crystals as a Function of Magnetic Field Strength and Temperature. (E/T) V. F. Taborov. 10, 209 (1964) [10, 251 (1964)]
- A Photoelectric Microscope for Optical Imagery of Ultrasonic Fields. (E) V. L. Telashevskii. 10, 326 (1965) [10, 380 (1964)]
- Sound Fluctuations in Double Reflection From an Undulating Water Surface. (E) O. S. Tonkanov. 10, 211 (1964) [10, 253 (1964)]

- Propagation of Flexural Waves in an Inhomogeneous Plate with Smoothly Varying Parameters. (T) V. V. Tyutskina and A. P. Shkvarnikov. 10, 402 (1965) [10, 470 (1964)]
- Effect of Small Additives of Group III and IV Elements on the Dielectric and Piezoelectric Properties of Ceramic Lead-Barium Metanilobate Ferroelectrics. (E) A. A. Anan'eva and M. A. Ugryumova. 10, 327 (1965) [10, 265 (1964)]
- Diffraction by a Periodic Surface. (T) I. A. Urusovskii. 10, 287 (1965) [10, 338 (1964)]
- A High-Sensitivity Infrasonic Moving-Coil Microphone. (E) Ya. M. Vakhitov. 10, 199 (1964) [10, 242 (1964)]
- Influence of the Surrounding Fluid on the Propagation of Flexural Waves Along an Elastic Strip of Finite Width. (T/E) N. G. Vakhitov. 10, 350 (1965) [10, 407 (1964)]
- Ultrasonic Signal Amplification and Noise in a CdS Crystal. (E) V. I. Vas'tova, I. A. Viktorov, and L. D. Rosenberg. 10, 347 (1965) [10, 403 (1964)]
- The Scattering of Ultrasonic Rayleigh Waves at Models of Surface Defects. (E) I. A. Viktorov and T. M. Kaekina. 10, 25 (1964) [10, 30 (1964)]
- Damping of Surface and Spatial Ultrasonic Waves. (T/E) I. A. Viktorov. 10, 91 (1964) [10, 116 (1964)]
- Ultrasonic Signal Amplification and Noise in a CdS Crystal. (E) V. I. Vas'tova, I. A. Viktorov, and L. D. Rosenberg. 10, 347 (1965) [10, 403 (1964)]
- Investigation of Lamb Wave Excitation by the "Wedge" Method. (T/E) I. A. Viktorov, O. M. Zubova, and T. M. Kaekina. 10, 354 (1965) [10, 412 (1964)]
- Investigation of the Acoustical Characteristics of a Free Turbulent Jet. (E) E. V. Vlasov and A. G. Munin. 10, 232 (1965) [10, 271 (1964)]
- Effects of Electrical Loading on the Operation of a Multilayer Transducer. (T) L. M. Yakhonik. 10, 191 (1964) [10, 234 (1964)]
- Vibrational Relaxation in Thiophene Vapors. (E/T) Yu. A. Bashlachev and V. F. Yakovlev. 10, 197 (1964) [10, 241 (1964)]
- Determination of the Elastic Constants of Solids at Elevated Temperatures by the Double Echo-Pulse Method. (E) L. M. Mukhin and G. V. Yakovlev. 10, 415 (1965) [10, 483 (1964)]
- A Precision Interferometer for Measuring the Speed of Ultrasound in Liquids in the Range 1-12 Mc. (E) V. I. Igunas, O. Kubilyunas, and A. Yaperas. 10, 44 (1964) [10, 54 (1964)]
- A Digital Interferometer for Measuring the Speed of Ultrasound. (E) R. P. Zhilinskaya, V. I. Igunas, and E. P. Yaronis. 10, 93 (1964) [10, 118 (1964)]
- Slow Fluctuations of the Sound Field Due to Seiche Oscillations of a Shallow Lake. (T/E) L. N. Zakharov, V. S. Nesterov, and E. G. Fedoseeva. 10, 250 (1965) [10, 293 (1964)]
- Concerning Wave Motion in an Elastic Layer-Wise Inhomogeneous Medium with Power Law Variations in Density and Lamé Parameters. (T) V. Yu. Zavadskii. 10, 94 (1964) [10, 119 (1964)]
- Critical Frequencies Associated with Sound Propagation in a Layerwise Inhomogeneous Fluid Half-Space Bounded by a Thin Elastic Plate. (T) V. Yu. Zavadskii. 10, 137 (1964) [10, 167 (1964)]
- Displacement Potentials in an Elastic Layered-Inhomogeneous Medium. (T) V. Yu. Zavadskii. 10, 246 (1965) [10, 289 (1964)]
- Longitudinal and Transverse Waves in Elastic Layered-Inhomogeneous Media. (T) V. Yu. Zavadskii. 10, 407 (1965) [10, 476 (1964)]
- Excitation of Normal Modes in Plates by a Sound Beam at Oblique Incidence. (T/E) P. B. Dianov and K. V. Zharkov. 10, 39 (1964) [10, 48 (1964)]
- Normal Mode Damping in a Plate with Free Edges. (T/E) K. V. Zharkov, L. G. Merkulov, and E. D. Pigulevskii. 10, 133 (1964) [10, 163 (1964)]
- A Digital Interferometer for Measuring the Speed of Ultrasound. (E) R. P. Zhilinskaya, V. I. Igunas, and E. P. Yaronis. 10, 93 (1964) [10, 118 (1964)]
- Investigation of Lamb Wave Excitation by the "Wedge" Method. (T/E) I. A. Viktorov, O. M. Zubova, and T. M. Kaekina. 10, 354 (1965) [10, 412 (1964)]
- Measurement of the Ultrasonic Parameters of Liquid Crystals of Cholesteryl Caprate. (E) G. E. Zvereva and A. P. Kapustin. 10, 97 (1964) [10, 122 (1964)]

SOVIET PHYSICS-ACOUSTICS

Volume 10, 1964

A translation of *Akusticheskii Zhurnal*

Applied Acoustics, Instruments and Apparatus

Architectural Acoustics

Books, Bibliography, Surveys

General, Unclassified, Events

Molecular Acoustics

Molecular Acoustics

Noise

Physiological and Psychological Acoustics; Ear and Hearing

Shock and Vibration

Speech Communication and Information Theory

Ultrasonics

General, unclassified

Light affected by ultrasonic waves

Ultrasonic instruments, industrial applications

Ultrasonic waves in gases

Ultrasonic waves in liquids, cavitation

Ultrasonic waves in solids, flaw detection, transducers, delay lines

Ultrasonics (Continued)

Physical, chemical, and biological effects of ultrasonic waves

Underwater Sound

Waves and Vibrations

Diffraction, interference, scattering, reflection, echoes, standing waves

Gross movement of matter by sound or vibration, streaming, sensitive flames

Propagation, absolute velocity of sound, second sound, refraction, wavelength, Doppler effect

Radiation from vibrating objects, acoustic impedance

Finite amplitude sound, nonlinear effects, distortion, shock waves and explosions

Tubes, resonators, sources

Wave and field theory

Physical and biological effects of sound

Applied Acoustics, Instruments and Apparatus

A Precision Interferometer for Measuring the Speed of Ultrasound in Liquids in the Range 1-12 Mc. (E) V. Ilgmas, O. Kuhllyunene, and A. Yaperias. 10, 44 (1964) [10, 54 (1964)]

A Digital Interferometer for Measuring the Speed of Ultrasound. (E) R. P. Zhilinskaya, V. I. Ilgmas, and E. P. Yaronis. 10, 93 (1964) [10, 118 (1964)]

Spectral Analysis Using Harmonic Analyzers: Its Inadequacies and Ways of Coping with Them. (E/T) D. V. Bazhenov. 10, 120 (1964) [10, 147 (1964)]

A High-Sensitivity Infrasonic Moving-Coil Microphone. (E) Ya. Sh. Vakhitov. 10, 199 (1964) [10, 242 (1964)]

Variable Path Ultrasonic Interferometer with a Discrete Frequency Spectrum. (E) V. I. Domarkas and E. P. Yaronis. 10, 201 (1964) [10, 244 (1964)]

Scientific Council on Ultrasonic Physics. Yu. Borisov. 10, 217 (1964) [10, 257 (1964)]

A Simple Sectional Ultrasonic Tool for the Generation of Torsional Vibrations. (E) A. M. Mitskevich. 10, 317 (1965) [10, 372 (1964)]

A Photoelectric Microscope for Optical Imagery of Ultrasonic Fields. (E) V. I. Teleshevskii. 10, 326 (1965) [10, 380 (1964)]

Architectural Acoustics

Measurement of the Dynamic Characteristics of Sound and Vibration Insulating Materials in Longitudinal Vibrations. (R) G. S. Rosin. 10, 1 (1964) [10, 1 (1964)]

The Theory of Vibrations of Nonhomogeneous Elastic Plates. (T) L. M. Lyamshv. 10, 65 (1964) [10, 81 (1964)]

Normal Mode Damping in a Plate with Free Edges. (T/E) K. V. Zharkov, L. G. Merkulov, and E. D. Pigulevskii. 10, 133 (1964) [10, 163 (1964)]

Radiation from a Plate of Finite Dimensions with Arbitrary Boundary Conditions. (T) A. S. Nikiforov. 10, 178 (1964) [10, 218 (1964)]

Sound Transmission Through a Thin Plate. (T)

E. L. Shenderov. 10, 187 (1964) [10, 229 (1964)]

A High-Sensitivity Infrasonic Moving-Coil Microphone. (E)

Ya. Sh. Vakhitov. 10, 199 (1964) [10, 242 (1964)]

Acoustical Parameters of a Lightweight Perforated Membrane.

(T/E) I. V. Lebedeva and V. S. Nesterov. 10, 269 (1965) [10, 318 (1964)]

Isocorrelation Curves as Characteristics of the Sound Fields in Reverberation Chambers. (T/E) N. N. Pisarevskii.

10, 323 (1965) [10, 377 (1964)]

Books, Bibliography, Surveys

"Underwater Acoustics" Edited by V. M. Albers. (R)

Reviewed by Yu. P. Lyasnov. 10, 107 (1964) [10, 132 (1964)]

Amplification of Ultrasonic and Hypersonic Waves in Crystals

(Review). (R) A. A. Chaban. 10, 111 (1964) [10, 137 (1964)]

I. E. El'pinner. Ultrasonic-Physicochemical and Biological Effects. Reviewed by L. P. Kayushina. 10, 218 (1964) [10, 258 (1964)]

Literature on Acoustics. Bibliography. 10, 221 (1964) [10, 260 (1964)]

Slow Fluctuations of the Sound Field Due to Seiche Oscillations of a Shallow Lake. (T/E) L. N. Zakharov, V. S. Nesterov, and E. G. Fedoseeva. 10, 250 (1965) [10, 293 (1964)]

The Underwater Echo-Location (Sonar) Capability of Dolphins (Review). (R) E. V. Romanenko. 10, 331 (1965) [10, 385 (1964)]

General, Unclassified, Events

V. V. Furduev (on his 60th birthday). Biography. 10, 102 (1964) [10, 127 (1964)]

The Fourth All-Union Research-Development Conference on the Application of Ultrasonics in Machine Design. (R) A. M. Mitskevich. 10, 104 (1964) [10, 128 (1964)]

The Visit of Professor G. Békésy to the USSR. G. Glekin. 10, 106 (1964) [10, 131 (1964)]

- Seminar on the Application of Ultrasonics in Electroplating Technology. V. A. Druchenko. 10, 213 (1964) [10, 255 (1964)]
- Application of Ultrasonics in the Food Industry. Yu. Borisov. 10, 215 (1964) [10, 256 (1964)]
- Eleventh All-Russian Scientific Conference on the Application of Ultrasonics to the Investigation of Matter. B. Kudryavtsev. 10, 216 (1964) [10, 257 (1964)]
- Scientific Council on Ultrasonic Physics. Yu. Borisov. 10, 217 (1964) [10, 257 (1964)]
- V. F. Nozdrev, Honored Scientist of the RSFSR. 10, 418 (1965) [10, 496 (1964)]
- Josef B. Slavik (In Memoriam). 10, 419 (1965) [10, 496 (1964)]
- Lev Yakovlevich Gutin (In Memoriam). 10, 421 (1965) [10, 487 (1964)]
- Conference on the Application of Ultrasonics for the Intensification of Chemical Engineering Processes. N. P. Chugunov. 10, 423 (1965) [10, 488 (1964)]
- Fifth International Congress on Acoustics (Announcement). 10, 425 (1965) [10, 489 (1964)]
- Molecular Acoustics**
- Interferometric Measurements of the Dispersion of Ultrasonic Velocity in Liquids. (E) K. Barshauskas, V. Ignas, and O. Kubilyunene. 10, 21 (1964) [10, 25 (1964)]
- Calculation of the Relaxation Time for the Degree of Dissociation of Magnesium Sulfate in Fresh and Sea Water as a Function of Temperature. (T/E) V. P. Giotov. 10, 33 (1964) [10, 40 (1964)]
- On the Absolute Measurement of Ultrasonic Fields in Solids. (E/T) I. G. Mikhailov and V. A. Shutilov. 10, 77 (1964) [10, 96 (1964)]
- An Investigation of the Absorption Coefficient and the Propagation Velocity of Ultrasonic Waves in Binary Mixtures of Formic Acid and Ethylformate. (E/T) B. A. Belinskii, V. F. Nozdrev, and P. K. Khabibullaev. 10, 87 (1964) [10, 112 (1964)]
- Measurement of the Ultrasonic Parameters of Liquid Crystals of Cholesteryl Caprate. (E) G. E. Zvereva and A. P. Kapustin. 10, 97 (1964) [10, 123 (1964)]
- Amplification of Ultrasonic and Hypersonic Waves in Crystals (Review). (R) A. A. Chaban. 10, 111 (1964) [10, 137 (1964)]
- Spectral Analysis Using Harmonic Analyzers: Its Inadequacies and Ways of Coping with Them. (E/T) D. V. Bazhenov. 10, 120 (1964) [10, 147 (1964)]
- Elastic Moduli of Ice Crystals. (E) V. V. Bogorodskii. 10, 124 (1964) [10, 152 (1964)]
- Velocity of Sound and Compressibility of Solutions of Inorganic Salts in Formamide. (E) I. G. Mikhailov, M. V. Rozina, and V. A. Shutilov. 10, 174 (1964) [10, 213 (1964)]
- A Special Case of Relaxation Involving Exchange of Vibrational Quanta. (T) A. Baibadaev. 10, 195 (1964) [10, 239 (1964)]
- Vibrational Relaxation in Thiophene Vapors. (E/T) Yu. A. Bashlachev and V. F. Yakovlev. 10, 197 (1964) [10, 241 (1964)]
- Investigation of Ultrasonic Absorption in the Binary Mixture Benzene-Methyl Alcohol Along the Saturation Line, Including the Critical Region. (E) I. G. Makhan'ko and V. F. Nozdrev. 10, 207 (1964) [10, 249 (1964)]
- Variation of Ultrasonic Attenuation in Nickel Single Crystals as a Function of Magnetic Field Strength and Temperature. (E/T) V. F. Taborov. 10, 209 (1964) [10, 251 (1964)]
- Eleventh All-Russian Scientific Conference on the Application of Ultrasonics to the Investigation of Matter. B. Kudryavtsev. 10, 216 (1964) [10, 257 (1964)]
- Effect of Small Additives of Group III and IV Elements on the Dielectric and Piezoelectric Properties of Ceramic Lead-Barium Metaniobate Ferroelectrics. (E) A. A. Anan'eva and M. A. Ugrumova. 10, 227 (1965) [10, 265 (1964)]
- Investigation of the Acoustical Characteristics of a Free Turbulent Jet. (E) E. V. Vlasov and A. G. Munin. 10, 232 (1965) [10, 271 (1964)]
- Properties of Magnetostrictive Ferrites at Large Amplitudes of Magnetic Induction and Mechanical Stress. (E/T) I. P. Golyamina and V. K. Chulkova. 10, 236 (1965) [10, 276 (1964)]
- Effect of Intense Ultrasound on the Structure of Concentrated Polymer Solutions. (T/E) N. M. Fedorova. 10, 294 (1965) [10, 347 (1964)]
- Self-Consistent Field Approach to Calculation of the Effective Parameters of Microinhomogeneous Media. (T) I. A. Chaban. 10, 298 (1965) [10, 351 (1964)]
- Ultrasonic Initiation of Chain Reaction with a Bromine Catalyst. (E) M. A. Margulis, A. V. Sokol'skaya, and I. E. Zhupner. 10, 315 (1965) [10, 370 (1964)]
- Mechanism of Elastic Damping in Conjunction with Phase Transitions in Cu-Be and Cu-In Alloys. (E/T) N. S. Mordyuk and I. G. Polotskii. 10, 319 (1965) [10, 374 (1964)]
- Nonlinear Acoustical Properties of Aqueous Electrolytic Solutions. (E/T) I. G. Mikhailov and V. A. Shutilov. 10, 385 (1965) [10, 450 (1964)]
- Nature of the Disturbances Giving Rise to Formation of the Disperse Phase of an Emulsion in an Acoustic Field. (R) S. A. Neduzhii. 10, 390 (1965) [10, 456 (1964)]
- Measurement of the Bulk Modulus of Elasticity of Animal Tissues. (E) L. P. Lebedeva. 10, 410 (1965) [10, 479 (1964)]
- Determination of the Elastic Constants of Solids at Elevated Temperatures by the Double Echo-Pulse Method. (E) L. M. Mukhin and G. V. Yakovlev. 10, 415 (1965) [10, 483 (1964)]
- Musical Acoustics**
- Intelligibility in Singing as a Function of Fundamental Voice Pitch. (E/T) V. P. Morozov. 10, 279 (1965) [10, 330 (1964)]
- Noise**
- Generation of Sound in the Collision of Gas Jets. (E) V. I. Kondrat'ev. 10, 54 (1964) [10, 66 (1964)]
- Spectral Analysis Using Harmonic Analyzers: Its Inadequacies and Ways of Coping with Them. (E/T) D. V. Bazhenov. 10, 120 (1964) [10, 147 (1964)]
- The Mechanism of Sound Generation in a Gas-Jet Sound Radiator. (T/E) V. P. Kurkin. 10, 157 (1964) [10, 191 (1964)]
- Coherent and Incoherent Scattering of Waves by a Set of Point Scatterers Distributed Randomly in Space. (T/E) B. F. Kur'yanov. 10, 160 (1964) [10, 195 (1964)]
- Effect of Flight Velocity on the Engine Noise of the Tu-124 Transport. (E) B. N. Mel'nikov. 10, 276 (1965) [10, 327 (1964)]
- Ultrasonic Signal Amplification and Noise in a CdS Crystal. (E) V. I. Vas'kova, I. A. Viktorov, and L. D. Rozenberg. 10, 347 (1965) [10, 403 (1964)]
- Experiments in the Spatial Correlation of the Amplitude and Phase Fluctuations of Acoustic Signals Reflected From a Rough Ocean Surface. (E/T) E. P. Gulin and K. I. Malyshev. 10, 365 (1965) [10, 425 (1964)]
- Sound Generation Associated with the Encounter of Oxidizer and Fuel Jets. (T/E) V. I. Kondrat'ev and A. V. Rimskii-Korsakov. 10, 380 (1965) [10, 444 (1964)]

Physiological and Psychological Acoustics; Ear and Hearing

- Scattering of Sound by Air Bubbles of Fish in Deep Sound-Scattering Ocean Layers. (E) I. B. Andreeva. 10, 17 (1964) 10, 20 (1964)
- The Underwater Echo-Location (Sonar) Capability of Dolphins (Review). (R) E. V. Romanenko. 10, 331 (1965) 10, 385 (1964)
- Measurement of the Bulk Modulus of Elasticity of Animal Tissues. (E) L. P. Lebedeva. 10, 410 (1965) 10, 479 (1964)

Shock and Vibration

- Measurement of the Dynamic Characteristics of Sound and Vibration Insulating Materials in Longitudinal Vibrations. (R) G. S. Rosin. 10, 1 (1964) 10, 1 (1964)
- Calculation of the Static Sensitivity of a Three-Layer Cylindrical Transducer. (T) A. A. Anan'eva and V. A. Berezin. 10, 13 (1964) 10, 15 (1964)
- Scattering of Flexural Waves by Antivibrators on a Plate. (T/E) I. I. Kiyukin and Yu. D. Sergeev. 10, 49 (1964) 10, 60 (1964)
- Visualization of the Oscillations of a Plate. (E) I. I. Kiyukin. 10, 98 (1964) 10, 123 (1964)
- Normal Mode Damping in a Plate with Free Edges. (T/E) K. V. Zharkov, L. G. Markulov, and E. D. Pigulevskii. 10, 133 (1964) 10, 163 (1964)
- Radiation from a Plate of Finite Dimensions with Arbitrary Boundary Conditions. (T) A. S. Nikiforov. 10, 178 (1964) 10, 218 (1964)

Speech Communication and Information Theory

- Spectral Analysis Using Harmonic Analyzers: Its Inadequacies and Ways of Coping with Them. (E/T) D. V. Bazhenov. 10, 120 (1964) 10, 147 (1964)
- Intelligibility in Singing as a Function of Fundamental Voice Pitch. (E/T) V. P. Morozov. 10, 279 (1965) 10, 330 (1964)

UltrasonicsUltrasonics: General, unclassified

- The Fourth All-Union Research-Development Conference on the Application of Ultrasonics in Machine Design. (R) A. M. Mityakov. 10, 104 (1964) 10, 128 (1964)
- Seminar on the Application of Ultrasonics in Electroplating Technology. V. A. Druchenko. 10, 213 (1964) 10, 255 (1964)
- Application of Ultrasonics in the Food Industry. Yu. Borisov. 10, 215 (1964) 10, 256 (1964)
- Eleventh All-Russian Scientific Conference on the Application of Ultrasonics to the Investigation of Matter. B. Kudryavtsev. 10, 216 (1964) 10, 257 (1964)
- Scientific Council on Ultrasonic Physics. Yu. Borisov. 10, 217 (1964) 10, 257 (1964)
- I. E. El'piner. Ultrasound-Physicochemical and Biological Effects. Reviewed by L. P. Kayushin. 10, 218 (1964) 10, 258 (1964)
- On an Article by N. E. Zhukovskii Describing the Echo-Pulse Method of Flaw Detection. (R) M. A. Isakov. 10, 372 (1965) 10, 435 (1964)
- Conference on the Application of Ultrasonics for the Intensification of Chemical Engineering Processes. N. P. Chuganov. 10, 423 (1965) 10, 488 (1964)

Ultrasonics: Light affected by ultrasonic waves

- A Photoelectric Microscope for Optical Imagery of Ultrasonic Fields. (E) V. I. Teleshevskii. 10, 326 (1965) 10, 380 (1964)

Ultrasonics: Ultrasonic instruments, industrial applications

- Interferometric Measurements of the Dispersion of Ultrasonic Velocity in Liquids. (E) K. Barabanskas, V. Ilginskas, and O. Kubilyunas. 10, 21 (1964) 10, 25 (1964)
- A Precision Interferometer for Measuring the Speed of Ultrasound in Liquids in the Range 1-12 Mc. (E) V. Ilginskas, O. Kubilyunas, and A. Yapietas. 10, 44 (1964) 10, 54 (1964)
- A Digital Interferometer for Measuring the Speed of Ultrasound. (E) R. P. Zhilinskis, V. I. Ilginskas, and E. P. Yaronis. 10, 93 (1964) 10, 118 (1964)
- The Fourth All-Union Research-Development Conference on the Application of Ultrasonics in Machine Design. (R) A. M. Mityakov. 10, 104 (1964) 10, 128 (1964)
- Variable Path Ultrasonic Interferometer with a Discrete Frequency Spectrum. (E) V. I. Domarkas and E. P. Yaronis. 10, 201 (1964) 10, 244 (1964)
- Seminar on the Application of Ultrasonics in Electroplating Technology. V. A. Druchenko. 10, 213 (1964) 10, 255 (1964)
- A Simple Sectional Ultrasonic Tool for the Generation of Torsional Vibrations. (E) A. M. Mityakov. 10, 317 (1965) 10, 372 (1964)
- A Photoelectric Microscope for Optical Imagery of Ultrasonic Fields. (E) V. I. Teleshevskii. 10, 326 (1965) 10, 380 (1964)

Ultrasonics: Ultrasonic waves in gases

- A Special Case of Relaxation Involving Exchange of Vibrational Quanta. (T) A. Baidakov. 10, 195 (1964) 10, 235 (1964)
- Focusing of Cylindrical Ultrasonic Waves in an Absorptive Medium. (T) I. N. Kanavskii. 10, 262 (1965) 10, 309 (1964)

Ultrasonics: Ultrasonic waves in liquids, cavitation

- Interaction of Ultrasonic Waves in Cavitation. (E) V. A. Akulichev and V. I. Il'ichev. 10, 10 (1964) 10, 11 (1964)
- Interferometric Measurements of the Dispersion of Ultrasonic Velocity in Liquids. (E) K. Barabanskas, V. Ilginskas, and O. Kubilyunas. 10, 21 (1964) 10, 25 (1964)
- A Calculation of the Pulsations of Gas Bubbles in an Incompressible Liquid Subject to a Periodically Varying Pressure. (T) M. I. Borotnikova and R. I. Soloukhin. 10, 28 (1964) 10, 34 (1964)
- A Precision Interferometer for Measuring the Speed of Ultrasound in Liquids in the Range 1-12 Mc. (E) V. Ilginskas, O. Kubilyunas, and A. Yapietas. 10, 44 (1964) 10, 54 (1964)
- The Role of Ultrasonic Cavitation in Reducing the Viscosity of Hydraulic Liquids. (E) M. E. Arkhangelskii and K. Ya. Sergeeva. 10, 88 (1964) 10, 111 (1964)
- An Investigation of the Absorption Coefficient and the Propagation Velocity of Ultrasonic Waves in Binary Mixtures of Formic Acid and Ethylformate. (E/T) B. A. Belinskii, V. F. Nondrev, and P. K. Khambullayev. 10, 87 (1964) 10, 112 (1964)
- Measurement of the Ultrasonic Parameters of Liquid Crystals of Cholesteryl Caprate. (E) G. E. Zvereva and A. P. Kapustin. 10, 97 (1964) 10, 123 (1964)
- Velocity of Sound and Compressibility of Solutions of Inorganic Salts in Formamide. (E) I. G. Mikhailov, M. V. Rozina, and V. A. Shutlov. 10, 174 (1964) 10, 213 (1964)
- Vibrational Relaxation in Thiophene Vapors. (E/T) Yu. A. Bashlachev and V. F. Yakovlev. 10, 197 (1964) 10, 241 (1964)

- Investigation of Ultrasonic Absorption in the Binary Mixture Benzene-Methyl Alcohol Along the Saturation Line, Including the Critical Region. (E) I. G. Makhan'ko and V. F. Nozdrev. 10, 207 (1964) [10, 249 (1964)]
- Focusing of Cylindrical Ultrasonic Waves in an Absorptive Medium. (T) I. N. Kanevskii. 10, 352 (1965) [10, 309 (1964)]
- Mechanism of Emulsification in an Acoustic Field. (T/E) A. A. Baram. 10, 343 (1965) [10, 398 (1964)]
- Kinetics of the Ultrasonic Degassing of a Liquid Below the Cavitation Threshold. (E) O. A. Kapustina. 10, 376 (1965) [10, 440 (1964)]
- Nonlinear Acoustical Properties of Aqueous Electrolytic Solutions. (E/T) I. G. Mikhailov and V. A. Shutilov. 10, 385 (1965) [10, 450 (1964)]
- Energy Balance of an Acoustic Field in the Presence of Cavitation. (E) M. G. Skrotiyuk. 10, 398 (1965) [10, 465 (1964)]
- Ultrasonics: Ultrasonic waves in solids, flaw detection, transducers, delay lines**
- Calculation of the Static Sensitivity of a Three-Layer Cylindrical Transducer. (T) A. A. Anan'eva and V. A. Berezin. 10, 13 (1964) [10, 15 (1964)]
- The Scattering of Ultrasonic Rayleigh Waves at Models of Surface Defects. (E) I. A. Viktorov and T. M. Kaekina. 10, 25 (1964) [10, 30 (1964)]
- Excitation of Normal Modes in Plates by a Sound Beam at Oblique Incidence. (T/E) P. B. Dianov and K. V. Zharkov. 10, 39 (1964) [10, 48 (1964)]
- On the Absolute Measurement of Ultrasonic Fields in Solids. (E/T) I. G. Mikhailov and V. A. Shutilov. 10, 77 (1964) [10, 98 (1964)]
- Damping of Surface and Spatial Ultrasonic Waves. (T/E) I. A. Viktorov. 10, 91 (1964) [10, 116 (1964)]
- Amplification of Ultrasonic and Hypersonic Waves in Crystals (Review). (R) A. A. Chaban. 10, 111 (1964) [10, 137 (1964)]
- Diffraction of a Flexural Wave by a Circular Obstacle in a Plate. (T) Yu. K. Kosenkov. 10, 153 (1964) [10, 186 (1964)]
- Damping of Normal Modes in a Plate Immersed in a Liquid. (T/E) L. G. Merkulov. 10, 169 (1964) [10, 208 (1964)]
- Effects of Electrical Loading on the Operation of a Multilayer Transducer. (T) L. M. Yablonskiy. 10, 191 (1964) [10, 234 (1964)]
- Variation of Ultrasonic Attenuation in Nickel Single Crystals as a Function of Magnetic Field Strength and Temperature. (E/T) V. F. Taborov. 10, 209 (1964) [10, 251 (1964)]
- Effect of Small Additives of Group III and IV Elements on the Dielectric and Piezoelectric Properties of Ceramic Lead-Barium Metanoborate Ferroelectrics. (E) A. A. Anan'eva and M. A. Ugrumova. 10, 227 (1965) [10, 265 (1964)]
- Properties of Magnetoelectric Ferrites at Large Amplitudes of Magnetic Induction and Mechanical Stress. (E/T) I. P. Golyamina and V. K. Chalkova. 10, 236 (1965) [10, 276 (1964)]
- Focusing of Cylindrical Ultrasonic Waves in an Absorptive Medium. (T) I. N. Kanevskii. 10, 262 (1965) [10, 309 (1964)]
- Ultrasonic Signal Amplification and Noise in a CdS Crystal. (E) V. I. Vas'kova, I. A. Viktorov, and L. D. Rosenberg. 10, 347 (1965) [10, 403 (1964)]
- Investigation of Lamb Wave Excitation by the "Wedge" Method. (T/E) I. A. Viktorov, O. M. Zubova, and T. M. Kaekina. 10, 354 (1965) [10, 413 (1964)]
- On an Article by N. E. Zhukovskii Describing the Echo-Pulse Method of Flaw Detection. (R) M. A. Isakovich. 10, 372 (1965) [10, 435 (1964)]
- Propagation of Flexural Waves in an Inhomogeneous Plate with Smoothly Varying Parameters. (T) V. V. Tyutekin and A. P. Shkvarnikov. 10, 402 (1965) [10, 470 (1964)]
- Determination of the Elastic Constants of Solids at Elevated Temperatures by the Double Echo-Pulse Method. (E) L. M. Mukhin and G. V. Yakovlev. 10, 415 (1965) [10, 483 (1964)]
- Ultrasonics: Physical, chemical, and biological effects of ultrasonic waves**
- The Role of Ultrasonic Cavitation in Reducing the Viscosity of Hydraulic Liquids. (E) M. E. Arkhangelskii and K. Ya. Sergeeva. 10, 86 (1964) [10, 111 (1964)]
- The Nature of Liquid Atomization in an Ultrasonic Fountain. (T/E) E. L. Gershenson and O. K. Ekmadovsyan. 10, 127 (1964) [10, 156 (1964)]
- Application of Ultrasonics in the Food Industry. Yu. Borisov. 10, 215 (1964) [10, 256 (1964)]
- I. E. El'piner. Ultrasonic-Physicochemical and Biological Effects. Reviewed by L. P. Kayushin. 10, 218 (1964) [10, 258 (1964)]
- Effect of Intense Ultrasound on the Structure of Concentrated Polymer Solutions. (T/E) N. M. Fedorova. 10, 294 (1965) [10, 347 (1964)]
- Ultrasonic Initiation of Chain Reaction with a Bromine Catalyst. (E) M. A. Margulis, A. V. Sokol'skaya, and I. E. El'piner. 10, 315 (1965) [10, 370 (1964)]
- Mechanism of Emulsification in an Acoustic Field. (T/E) A. A. Baram. 10, 343 (1965) [10, 398 (1964)]
- Kinetics of the Ultrasonic Degassing of a Liquid Below the Cavitation Threshold. (E) O. A. Kapustina. 10, 376 (1965) [10, 440 (1964)]
- Nature of the Disturbances Giving Rise to Formation of the Disperse Phase of an Emulsion in an Acoustic Field. (R) S. A. Neduzhii. 10, 390 (1965) [10, 456 (1964)]
- Underwater Sound**
- Scattering of Sound by Air Bubbles of Fish in Deep Sound-Scattering Ocean Layers. (E) I. B. Andreeva. 10, 17 (1964) [10, 20 (1964)]
- A Calculation of the Pulsations of Gas Bubbles in an Incompressible Liquid Subject to a Periodically Varying Pressure. (T) M. I. Borotnikova and R. I. Soloukhin. 10, 28 (1964) [10, 34 (1964)]
- Calculation of the Relaxation Time for the Degree of Dissociation of Magnesium Sulfate in Fresh and Sea Water as a Function of Temperature. (T/E) V. P. Giotov. 10, 33 (1964) [10, 40 (1964)]
- Correlation Characteristics of Sea Reverberation. (T/E) V. V. Ol'shevskii. 10, 61 (1964) [10, 104 (1964)]
- A Limiting Case of Sound Propagation in Natural Waveguides. (T) L. M. Brekhovskikh. 10, 89 (1964) [10, 114 (1964)]
- "Underwater Acoustics" Edited by V. M. Albers. (R) Reviewed by Yu. P. Lysanov. 10, 107 (1964) [10, 132 (1964)]
- Elastic Moduli of Ice Crystals. (E) V. V. Bogorodskii. 10, 124 (1964) [10, 152 (1964)]
- Amplitude and Phase Fluctuations and Their Correlation in the Propagation of Waves in a Medium with Random, Statistically Anisotropic Inhomogeneities. (T) V. M. Komissarov. 10, 143 (1964) [10, 174 (1964)]
- Coherent and Incoherent Scattering of Waves by a Set of Point Scatterers Distributed Randomly in Space. (T/E) B. F. Kur'yanyov. 10, 160 (1964) [10, 195 (1964)]
- Statistical Spectra of Sea Reverberation. (E) V. V. Ol'shevskii. 10, 183 (1964) [10, 224 (1964)]
- Calculating the Effect of the Free Surface on Sound Scattering in the Sea. (T) B. F. Kur'yanyov. 10, 203 (1964) [10, 245 (1964)]

- Sound Fluctuations in Double Reflection From an Undulating Water Surface. (E) O. S. Tonaknov. 10, 211 (1964) [10, 253 (1964)]
- Analysis of Rays Propagating in an Inhomogeneous Medium. (T) V. A. Eliseevina. 10, 242 (1965) [10, 284 (1964)]
- Displacement Potentials in an Elastic Layered-Inhomogeneous Medium. (T) V. Yu. Zavadskii. 10, 246 (1965) [10, 289 (1964)]
- Reflection of Flexural Waves by Ice Hummocks. (T) N. I. Izral'eva and V. N. Krasn'nikov. 10, 256 (1965) [10, 301 (1964)]
- Diffraction by a Periodic Surface. (T) I. A. Urusovskii. 10, 287 (1965) [10, 338 (1964)]
- The Underwater Echo-Location (Sonar) Capability of Dolphins (Review). (R) E. V. Romanenko. 10, 331 (1965) [10, 385 (1964)]
- Coherent Reflection of Sound From an Ocean Surface Layer Containing Resonance Scatterers. (T) V. P. Giotov and Yu. P. Lysanov. 10, 360 (1965) [10, 419 (1964)]
- Experiments in the Spatial Correlation of the Amplitude and Phase Fluctuations of Acoustic Signals Reflected From a Rough Ocean Surface. (E/T) É. P. Gulin and K. I. Malyshov. 10, 365 (1965) [10, 425 (1964)]
- Longitudinal and Transverse Waves in Elastic Layered-Inhomogeneous Media. (T) V. Yu. Zavadskii. 10, 407 (1965) [10, 476 (1964)]
- Measurement of the Bulk Modulus of Elasticity of Animal Tissues. (E) L. P. Lebedeva. 10, 410 (1965) [10, 479 (1964)]
- Waves and Vibrations**
- Waves and Vibrations: Diffraction, interference, scattering, reflection, echoes, standing waves
- Interaction of Ultrasonic Waves in Cavitation. (E) V. A. Anilichev and V. I. Il'ichev. 10, 10 (1964) [10, 11 (1964)]
- Scattering of Sound by Air Blisters of Fish in Deep Sound-Scattering Ocean Layers. (E) I. B. Andreeva. 10, 17 (1964) [10, 20 (1964)]
- The Scattering of Ultrasonic Rayleigh Waves at Models of Surface Defects. (E) I. A. Viktorov and T. M. Kaekina. 10, 25 (1964) [10, 30 (1964)]
- Scattering of Flexural Waves by Antivibrators on a Plate. (T/E) I. I. Kiyukin and Yu. D. Sergeev. 10, 49 (1964) [10, 60 (1964)]
- Sound Scattering at a Rough Solid Surface. (T) A. D. Lapin. 10, 58 (1964) [10, 71 (1964)]
- Correlation Characteristics of Sea Reverberation. (T/E) V. V. Ol'shevskii. 10, 81 (1964) [10, 104 (1964)]
- Amplitude and Phase Fluctuations and Their Correlation in the Propagation of Waves in a Medium with Random, Statistically Anisotropic Inhomogeneities. (T) V. M. Komissarov. 10, 143 (1964) [10, 174 (1964)]
- Diffraction of a Flexural Wave by a Circular Obstacle in a Plate. (T) Yu. K. Konenkov. 10, 153 (1964) [10, 186 (1964)]
- Coherent and Incoherent Scattering of Waves by a Set of Point Scatterers Distributed Randomly in Space. (T/E) B. F. Kur'yanov. 10, 160 (1964) [10, 195 (1964)]
- Statistical Spectra of Sea Reverberation. (E) V. V. Ol'shevskii. 10, 183 (1964) [10, 224 (1964)]
- Sound Transmission Through a Thin Plate. (T) E. L. Shenderov. 10, 187 (1964) [10, 229 (1964)]
- Variable Path Ultrasonic Interferometer with a Discrete Frequency Spectrum. (E) V. I. Domarkas and E. P. Jaronis. 10, 201 (1964) [10, 244 (1964)]
- Calculating the Effect of the Free Surface on Sound Scattering in the Sea. (T) B. F. Kur'yanov. 10, 203 (1964) [10, 245 (1964)]
- Reflection of Sound From an Interface Between Moving Media. (T) L. M. Lyamshev. 10, 205 (1964) [10, 247 (1964)]
- Sound Fluctuations in Double Reflection From an Undulating Water Surface. (E) O. S. Tonaknov. 10, 211 (1964) [10, 253 (1964)]
- Reflection of Flexural Waves by Ice Hummocks. (T) N. I. Izral'eva and V. N. Krasn'nikov. 10, 256 (1965) [10, 301 (1964)]
- Diffraction by a Periodic Surface. (T) I. A. Urusovskii. 10, 287 (1965) [10, 338 (1964)]
- Sound Diffraction by Slits in a Plate of Finite Thickness. (T) E. L. Shenderov. 10, 305 (1965) [10, 359 (1964)]
- Interference Effects in the Use of a Moving Receiver to Determine Angle of Arrival of Sound. (T) B. F. Kur'yanov. 10, 312 (1965) [10, 368 (1964)]
- Mechanism of Elastic Damping in Conjunction with Phase Transitions in Cu-Be and Cu-In Alloys. (E/T) N. S. Morduk and I. G. Polotskii. 10, 319 (1965) [10, 374 (1964)]
- Isocorrelation Curves as Characteristics of the Sound Fields in Reverberation Chambers. (T/E) N. N. Pisarevskii. 10, 323 (1965) [10, 377 (1964)]
- The Underwater Echo-Location (Sonar) Capability of Dolphins (Review). (R) E. V. Romanenko. 10, 331 (1965) [10, 385 (1964)]
- Coherent Reflection of Sound From an Ocean Surface Layer Containing Resonance Scatterers. (T) V. P. Giotov and Yu. P. Lysanov. 10, 360 (1965) [10, 419 (1964)]
- Experiments in the Spatial Correlation of the Amplitude and Phase Fluctuations of Acoustic Signals Reflected From a Rough Ocean Surface. (E/T) É. P. Gulin and K. I. Malyshov. 10, 365 (1965) [10, 425 (1964)]
- On an Article by N. E. Zhukovskii Describing the Echo-Pulse Method of Flaw Detection. (R) M. A. Isakovich. 10, 372 (1965) [10, 435 (1964)]
- Measurement of the Bulk Modulus of Elasticity of Animal Tissues. (E) L. P. Lebedeva. 10, 410 (1965) [10, 479 (1964)]
- Determination of the Elastic Constants of Solids at Elevated Temperatures by the Double Echo-Pulse Method. (E) L. M. Mukhin and G. V. Yakovlev. 10, 415 (1965) [10, 483 (1964)]
- Waves and Vibrations: Gross movement of matter by sound or vibration, streaming, sensitive flames**
- Generation of Sound in the Collision of Gas Jets. (E) V. I. Kondrat'ev. 10, 54 (1964) [10, 66 (1964)]
- Correlation Characteristics of Sea Reverberation. (T/E) V. V. Ol'shevskii. 10, 81 (1964) [10, 104 (1964)]
- Visualization of the Oscillations of a Plate. (E) I. I. Kiyukin. 10, 98 (1964) [10, 123 (1964)]
- The Nature of Liquid Atomization in an Ultrasonic Fountain. (T/E) E. L. Gershenson and O. K. Eknadiosyants. 10, 127 (1964) [10, 156 (1964)]
- Acoustical Parameters of a Lightweight Perforated Membrane. (T/E) I. V. Lebedeva and V. S. Nesterov. 10, 269 (1965) [10, 318 (1964)]
- Sound Generation Associated with the Encounter of Oxidizer and Fuel Jets. (T/E) V. I. Kondrat'ev and A. V. Rimskii-Korsakov. 10, 380 (1965) [10, 444 (1964)]
- Waves and Vibrations: Propagation, absolute velocity of sound, second sound, refraction, wavelength, Doppler effect**
- Sound Propagation in an Inhomogeneous Medium and the Internal Conditions. (T) D. I. Mirovitskii. 10, 70 (1964) [10, 88 (1964)]

- An Investigation of the Absorption Coefficient and the Propagation Velocity of Ultrasonic Waves in Binary Mixtures of Formic Acid and Ethylformate. (E/T) B. A. Belinskii, V. F. Nosdrev, and P. K. Khabibullaev. 10, 87 (1964) [10, 112 (1964)]
- A Limiting Case of Sound Propagation in Natural Waveguides. (T) L. M. Brekhovskikh. 10, 89 (1964) [10, 114 (1964)]
- Damping of Surface and Spatial Ultrasonic Waves. (T/E) I. A. Viktorov. 10, 91 (1964) [10, 116 (1964)]
- Concerning Wave Motion in an Elastic Layer-Wise Inhomogeneous Medium with Power Law Variations in Density and Lamé Parameters. (T) V. Yu. Zavadskii. 10, 94 (1964) [10, 119 (1964)]
- Critical Frequencies Associated with Sound Propagation in a Layerwise Inhomogeneous Fluid Half-Space Bounded by a Thin Elastic Plate. (T) V. Yu. Zavadskii. 10, 137 (1964) [10, 167 (1964)]
- Amplitude and Phase Fluctuations and Their Correlation in the Propagation of Waves in a Medium with Random, Statistically Anisotropic Inhomogeneities. (T) V. M. Komissarov. 10, 143 (1964) [10, 174 (1964)]
- Damping of Normal Modes in a Plate Immersed in a Liquid. (T) E. L. G. Merkulov. 10, 169 (1964) [10, 206 (1964)]
- Velocity of Sound and Compressibility of Solutions of Inorganic Salts in Formamide. (E) I. G. Mikhailov, M. V. Rozina, and V. A. Shutilov. 10, 174 (1964) [10, 213 (1964)]
- Analysis of Rays Propagating in an Inhomogeneous Medium. (T) V. A. Elisavitsin. 10, 242 (1965) [10, 284 (1964)]
- Displacement Potentials in an Elastic Layered-Inhomogeneous Medium. (T) V. Yu. Zavadskii. 10, 246 (1965) [10, 289 (1964)]
- Focusing of Cylindrical Ultrasonic Waves in an Absorptive Medium. (T) I. N. Kanevskii. 10, 262 (1965) [10, 309 (1964)]
- Propagation of Sound in a Heat Conducting Medium. (T) I. I. Perezhikh. 10, 284 (1965) [10, 335 (1964)]
- Influence of the Surrounding Fluid on the Propagation of Flexural Waves Along an Elastic Strip of Finite Width. (T/E) N. G. Vakhitov. 10, 350 (1965) [10, 407 (1964)]
- Investigation of Lamb Wave Excitation by the "Wedge" Method. (T/E) I. A. Viktorov, O. M. Zubova, and T. M. Kaekina. 10, 364 (1965) [10, 412 (1964)]
- Experiments in the Spatial Correlation of the Amplitude and Phase Fluctuations of Acoustic Signals Reflected From a Rough Ocean Surface. (E/T) É. P. Gulín and K. I. Malyshev. 10, 385 (1965) [10, 425 (1964)]
- Propagation of Flexural Waves in an Inhomogeneous Plate with Smoothly Varying Parameters. (T) V. V. Tyutekin and A. P. Shvartnikov. 10, 402 (1965) [10, 470 (1964)]
- Longitudinal and Transverse Waves in Elastic Layered-Inhomogeneous Media. (T) V. Yu. Zavadskii. 10, 407 (1965) [10, 475 (1964)]
- Waves and Vibrations: Radiation from vibrating objects, acoustic impedance
- Critical Frequencies Associated with Sound Propagation in a Layerwise Inhomogeneous Fluid Half-Space Bounded by a Thin Elastic Plate. (T) V. Yu. Zavadskii. 10, 137 (1964) [10, 167 (1964)]
- The Edge Effect in a Large Radiator. (T) Yu. P. Lysanov. 10, 165 (1964) [10, 202 (1964)]
- Radiation from a Plate of Finite Dimensions with Arbitrary Boundary Conditions. (T) A. S. Nikiforov. 10, 178 (1964) [10, 218 (1964)]
- Investigation of the Acoustical Characteristics of a Free Turbulent Jet. (E) E. V. Vlasov and A. G. Munin. 10, 232 (1965) [10, 271 (1964)]
- Acoustic Field of an Infinite Circular Cylindrical Radiator with Complex Boundary Conditions on the Surface. (T) M. I. Karnovskii and V. G. Losovik. 10, 265 (1965) [10, 313 (1964)]
- Effect of Flight Velocity on the Engine Noise of the Tu-124 Transport. (E) B. N. Mel'nikov. 10, 276 (1965) [10, 327 (1964)]
- Interference Effects in the Use of a Moving Receiver to Determine Angle of Arrival of Sound. (T) B. F. Kur'yanov. 10, 312 (1965) [10, 368 (1964)]
- Sound Radiation From an Infinite Plate Excited by a Normal Point Force. (T) L. Ya. Gutin. 10, 369 (1965) [10, 431 (1964)]
- Waves and Vibrations: Finite amplitude sound, nonlinear effects, distortion, shock waves and explosions
- The Mechanism of Sound Generation in a Gas-Jet Sound Radiator. (T/E) V. P. Kurkin. 10, 157 (1964) [10, 191 (1964)]
- Properties of Magnetostrictive Ferrites at Large Amplitudes of Magnetic Induction and Mechanical Stress. (E/T) I. P. Golyamina and V. K. Chalkova. 10, 235 (1965) [10, 278 (1964)]
- Nonlinear Acoustical Properties of Aqueous Electrolytic Solutions. (E/T) I. G. Mikhailov and V. A. Shutilov. 10, 385 (1965) [10, 450 (1964)]
- Nature of the Disturbances Giving Rise to Formation of the Disperse Phase of an Emulsion in an Acoustic Field. (R) S. A. Neduzhii. 10, 390 (1965) [10, 456 (1964)]
- Waves and Vibrations: Tubes, resonators, sources
- Generation of Sound in the Collision of Gas Jets. (E) V. I. Kondrat'ev. 10, 54 (1964) [10, 66 (1964)]
- An Integral Representation of the Field of a Point Source in a Moving Medium. (T) L. M. Lyashev. 10, 100 (1964) [10, 124 (1964)]
- The Mechanism of Sound Generation in a Gas-Jet Sound Radiator. (T/E) V. P. Kurkin. 10, 157 (1964) [10, 191 (1964)]
- Investigation of the Acoustical Characteristics of a Free Turbulent Jet. (E) E. V. Vlasov and A. G. Munin. 10, 232 (1965) [10, 271 (1964)]
- Sound Generation Associated with the Encounter of Oxidizer and Fuel Jets. (T/E) V. I. Kondrat'ev and A. V. Rimskii-Korsakov. 10, 380 (1965) [10, 444 (1964)]
- Field of a Point Dipole Sound Source Near a Plane Interface Between Two Media. (T) Yu. P. Lysanov. 10, 412 (1965) [10, 481 (1964)]
- Waves and Vibrations: Wave and Field theory
- Excitation of Normal Modes in Plates by a Sound Beam at Oblique Incidence. (T/E) P. B. Dianov and K. V. Zharkov. 10, 39 (1964) [10, 48 (1964)]
- Scattering of Flexural Waves by Antivibrators on a Plate. (T/E) I. I. Klyukin and Yu. D. Sergeev. 10, 49 (1964) [10, 60 (1964)]
- Sound Scattering at a Rough Solid Surface. (T) A. D. Lapin. 10, 58 (1964) [10, 71 (1964)]
- The Theory of Vibrations of Nonhomogeneous Elastic Plates. (T) L. M. Lyashev. 10, 65 (1964) [10, 81 (1964)]
- Sound Propagation in an Inhomogeneous Medium and the Internal Conditions. (T) D. I. Mirovitskii. 10, 70 (1964) [10, 88 (1964)]
- Concerning Wave Motion in an Elastic Layer-Wise Inhomogeneous Medium with Power Law Variations in Density and Lamé Parameters. (T) V. Yu. Zavadskii. 10, 94 (1964) [10, 119 (1964)]

- An Integral Representation of the Field of a Point Source in a Moving Medium. (T) L. M. Lyamshv. 10, 100 (1964) 10, 134 (1964)
- Normal Mode Damping in a Plate with Free Edges. (T/E) K. V. Zharkov, L. G. Merkulov, and E. D. Pigulevskii. 10, 133 (1964) 10, 163 (1964)
- Critical Frequencies Associated with Sound Propagation in a Layerwise Inhomogeneous Fluid Half-Space Bounded by a Thin Elastic Plate. (T) V. Yu. Zavadskii. 10, 137 (1964) 10, 167 (1964)
- Diffraction of a Flexural Wave by a Circular Obstacle in a Plate. (T) Yu. K. Kosenkov. 10, 153 (1964) 10, 186 (1964)
- The Edge Effect in a Large Radiator. (T) Yu. P. Lysanov. 10, 165 (1964) 10, 202 (1964)
- Damping of Normal Modes in a Plate Immersed in a Liquid. (T/E) L. G. Merkulov. 10, 169 (1964) 10, 206 (1964)
- Radiation from a Plate of Finite Dimensions with Arbitrary Boundary Conditions. (T) A. S. Nikiforov. 10, 178 (1964) 10, 218 (1964)
- Statistical Spectra of Sea Reverberation. (E) V. V. Ol'sheva. 10, 183 (1964) 10, 224 (1964)
- Sound Transmission Through a Thin Plate. (T) E. L. Shenderov. 10, 187 (1964) 10, 229 (1964)
- Effects of Electrical Loading on the Operation of a Multilayer Transducer. (T) L. M. Yablouk. 10, 191 (1964) 10, 234 (1964)
- Reflection of Sound From an Interface Between Moving Media. (T) L. M. Lyamshv. 10, 205 (1964) 10, 247 (1964)
- Displacement Potentials in an Elastic Layered-Inhomogeneous Medium. (T) V. Yu. Zavadskii. 10, 246 (1965) 10, 289 (1964)
- Slow Fluctuations of the Sound Field Due to Seiche Oscillations of a Shallow Lake. (T/E) L. N. Zaicharov, V. S. Nesterov, and É. G. Fedoseeva. 10, 250 (1965) 10, 293 (1964)
- Acoustic Field of an Infinite Circular Cylindrical Radiator with Complex Boundary Conditions on the Surface. (T) M. I. Karnovskii and V. G. Lozovik. 10, 265 (1965) 10, 313 (1964)
- Self-Consistent Field Approach to Calculation of the Effective Parameters of Microinhomogeneous Media. (T) I. A. Chaban. 10, 299 (1965) 10, 351 (1964)
- Influence of the Surrounding Fluid on the Propagation of Flexural Waves Along an Elastic Strip of Finite Width. (T/E) N. G. Vakhitov. 10, 350 (1965) 10, 407 (1964)
- Sound Radiation From an Infinite Plate Excited by a Normal Point Force. (T) L. Ya. Gutin. 10, 369 (1965) 10, 431 (1964)
- Energy Balance of an Acoustic Field in the Presence of Cavitation. (E) M. G. Mirotyn. 10, 398 (1965) 10, 465 (1964)
- Longitudinal and Transverse Waves in Elastic Layered-Inhomogeneous Media. (T) V. Yu. Zavadskii. 10, 407 (1965) 10, 476 (1964)
- Field of a Point Dipole Sound Source Near a Plane Interface Between Two Media. (T) Yu. P. Lysanov. 10, 412 (1965) 10, 481 (1964)
- Waves and Vibrations: Physical and biological effects of sound
- A Calculation of the Pulsations of Gas Bubbles in an Incompressible Liquid Subject to a Periodically Varying Pressure. (T) M. I. Boronikova and R. I. Soloukhin. 10, 28 (1964) 10, 34 (1964)
- The Role of Ultrasonic Cavitation in Reducing the Viscosity of Hydraulic Liquids. (E) M. E. Arkhangelskii and K. Ya. Sergeeva. 10, 86 (1964) 10, 111 (1964)
- The Nature of Liquid Atomization in an Ultrasonic Fountain. (T/E) E. L. Gershenson and O. K. Eknadisyants. 10, 127 (1964) 10, 155 (1964)
- Effect of Intense Ultrasound on the Structure of Concentrated Polymer Solutions. (T/E) N. M. Fedorova. 10, 294 (1965) 10, 347 (1964)
- Ultrasonic Initiation of Chain Reaction with a Bromine Catalyst. (E) M. A. Margulis, A. V. Sokol'skaya, and I. E. El'piner. 10, 315 (1965) 10, 370 (1964)
- Mechanism of Emulsification in an Acoustic Field. (T/E) A. A. Baram. 10, 343 (1965) 10, 398 (1964)
- Kinetics of the Ultrasonic Degassing of a Liquid Below the Cavitation Threshold. (E) O. A. Kapustina. 10, 376 (1965) 10, 440 (1964)